

Appl. No. 09/930,584
Amdt. dated Sept. 15, 2004
Reply to Office action of May 13, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Please cancel claims 1, 61, 62, 64-72 and 74-118 and amend claims 63 and 73 as shown in the listing of claims below.

1-62. (canceled)

63. (currently amended) ~~The method of claim 2~~ A method of reducing power dissipation in a communications system having at least one adaptive filter having at least one tap, said method comprising:

setting at least one tap threshold; and

dynamically adjusting the at least one tap threshold to allow at least one tap to be activated or deactivated to converge an error to a prespecified acceptable target error;

wherein dynamically adjusting the at least one tap threshold comprises determining whether to deactivate a tap based upon an adjusted tap threshold;

wherein determining whether to deactivate a tap comprises:

determining a filter error; and

if the filter error is less than a prespecified acceptable filter target error, deactivating the tap.

64-72. (canceled)

73. (currently amended) ~~The method of claim 13~~ A method of reducing power dissipation in a communications system having at least one adaptive filter having at least one tap, said method comprising:

setting at least one tap threshold; and

dynamically adjusting the at least one tap threshold to allow at least one tap to be activated or deactivated to converge an error to a prespecified acceptable target error;

wherein the at least one adaptive filter has a sufficient number of taps to accommodate for delay due to a length of the communications line;

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said method further comprising partitioning the taps into a plurality of blocks each having at least one tap and wherein activation and deactivation of adaptive filters is performed on a block-by-block basis, wherein the blocks are adjusted in a sequential manner starting at an input end of at least one adaptive filter.

74-118. (canceled)